

such as a rail car ABSTRACT

passenger transit car including
A (programmable system and) a self-locking memory circuit for a tristate data bus having multiple bit lines. The circuit includes a non-inverting amplifier chip for connection to one of the bit lines and a resistor having a predetermined electrical resistance connected across the amplifier chip. The chip and resistor provide a predetermined impedance to the flow of electrical current in the self-locking circuit. *to reduce the effects of electrical noise* The circuit changes its state when the current of the latest information on a bit line builds or lowers *upper and lower* above or below threshold levels of the self-locking circuit. The tristate data bus may be connected between a digital signal processor (DSP), a complex programmable logic device (CPLD) and a central processing unit (CPU) operating at different rates or speeds. 10